**BRUHAT BANGALORE MAHANAGARA PALIKE**

# MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward No. 09, (Vidyaranyapura).

Estimated Cost : Rs. 10.00 Lakhs

Head of Account : P-3292 14th Finance Commission Works
009-20-000077

Name of Agency: Sri. Madhusudhan.R, No. 830, 5th Block, BEL layout, Vidyaranyapura, Bangalore - 97.

Work order No: BBMP/EE/BTP/WO/167/2020-21 Dated: 02.01.2021.

Measurements Recarded on : 15-06-2022

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. | Cum | | | | | | | |
| | Qty as per Premeasurement vide E-MB Page No. 01 to 02 is = | | | | | | **49.50** | 200.00 | **9900.00** |
| 2 | Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications | Cum | | | | | | | |
| | Qty as per Premeasurement vide E-MB Page No. 03 to 04 is = | | | | | | **24.39** | 5000.00 | **121950.00** |
| 3 | Plain /Reinforcement Cement Concrete M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, in Open Foundation complete as per Drawing and Technical Specifications Case - I : Using Concrete Mixer" | Cum | | | | | | | |
| | For Chain Link Fencing @ HMT Layout 5th Block Park | | 10 | 0.45 | 0.45 | 0.60 | 1.22 | | |
| | For Chain Link Fencing @ Canara bank Park N/S | | | | | | | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | For Chain Link Fencing @ Canara bank Park S/S | | | | | | | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | 2001 | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | For Chain Link Fencing @ Canara bank Park E/S | | | | | | | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | For Chain Link Fencing @ Canara bank Park W/S | | | | | | | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | 1 | 15.00 | 0.20 | 0.45 | 1.35 | | |
| | | | | | | | **49.82** | | |
| | | | | | | | **48.92** | 6000.00 | **293520.00** |

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Measurements Recarded on : 15/06/22 | | | | | | | | |
| 4 | Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. | | | | | | | Sqm | |
| | Qty as per Premeasurement vide E-MB Page No. 05 to 06 is = | | | | | | **249.30** | 300.00 | **74790.00** |
| 5 | Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting ( excluding cost of earthwork and concrete) | | | | | | | Mtrs | |
| | | | 20 | 4.00 | | | 80.00 | | |
| | | | 2 | 3.00 | | | 6.00 | | |
| | | | | | | | **86.00** | 910.54 | **78306.00** |

15/06

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Measurements Recarded on : | | | | | | | | |
| 6 | Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. | Mtrs | | | | | | | |
| | | | 3 | 10.00 | | | 30.00 | | |
| | | | 3 | 5.00 | | | 15.00 | | |
| | | | 3 | 3.00 | | | 9.00 | | |
| | | | 3 | 8.00 | | | 24.00 | | |
| | | | 3 | 10.00 | | | 30.00 | | |
| | | | 3 | 8.00 | | | 24.00 | | |
| | | | 3 | 8.00 | | | 24.00 | | |
| | | | 2 | 8.00 | | | 16.00 | | |
| | | | | | | | **172.00** | | |
| | | | | | | | **170.00** | 400.00 | **68000.00** |

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Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Measurements Recarded on : 15/06/22 | | | | | | | | |
| 7 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint | | | | | | | Sqm | |
| | Canara Bank Layout | | 1 | 10.00 | | 3.00 | 30.00 | | |
| | | | 1 | 12.00 | | 3.00 | 36.00 | | |
| | | | 1 | 14.00 | | 3.00 | 42.00 | | |
| | | | 1 | 10.00 | | 3.00 | 30.00 | | |
| | | | 1 | 10.00 | | 3.00 | 30.00 | | |
| | | | 1 | 10.00 | | 3.00 | 30.00 | | |
| | Damage Portion | | 1 | 5.00 | | 3.00 | 15.00 | | |
| | | | 1 | 8.00 | | 3.00 | 24.00 | | |
| | | | | | | | **237.00** | | |
| | | | | | | | **234.00** | 650.00 | **152100.00** |
| | Sub Total | | | | | | | | **798566.00** |
| | GST Charges @ 12% | | | | | | | | **95828.00** |
| | | | | | | | | **Total** | **894394.00** |

15/06

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidayranyapura Sub Division